

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A time duration indicating system for a product, the system comprising:

a substrate having a volatile air treating component, and

a volatile dye, wherein the volatile dye is guaiazulene,

the volatile dye being coated onto the substrate thereby coloring the substrate, the volatile dye evaporating over time resulting in a color change for the substrate.

2. (Original) The time duration indicating system of claim 1, wherein the volatile component is an insecticide.

3. (Original) The time duration indicating system of claim 2, wherein the insecticide is a pyrethroid.

4. (Original) The time duration indicating system of claim 2, wherein the insecticide is selected from the group consisting of transfluthrin, vapothrin, permethrin, prallethrin, tefluthrin and esbiothrin.

5. (Original) The time duration indicating system of claim 1, wherein the volatile component is N,N-diethyl-m-toluamide.

6. (Canceled)

7. (Currently Amended) The time duration indicating system of claim 1, wherein ~~the volatile dye is guaiazulene and~~ the volatile component is transfluthrin.

8. (Original) The time duration indicating system of claim 1, further comprising a solvent, the volatile dye being dissolved in the solvent to form an intermediate solution, the substrate being coated with the intermediate solution.

9. (Currently Amended) The time duration indicating system of claim 8, wherein the solvent is selected from the group consisting of [[,]] isoparaffinic hydrocarbon solvents, heptane, methanol, acetone, ethanol, isopropyl alcohol, dodecene and tetrahydrofuran or mixtures thereof.

10. (Original) The time duration indicating system of claim 1, wherein the substrate is made from a material selected from the group consisting of cellulose, matted glass fibers, paper, ceramic, felt, woven fabric, nonwoven fabric, and polymeric powders or mixtures thereof.

11. (Original) The time duration indicating system of claim 1, further comprising a retarder selected from the group consisting of hexadecane, tetradecene, transfluthrin, dodecene, N,N-diethyl-m-toluamide, vapothrin, permethrin, prallethrin, tefluthrin, and esbiothrin.

12. (Original) The time duration indicating system of claim 1, further comprising a reference template having a color substantially the same as the substrate coated with the volatile dye and prior to any substantial volatilization of said dye.

13. (Original) The time duration indicating system of claim 1, further comprising a reference template having a color substantially the same as the substrate after substantially all of the dye has been volatilized.

14. (Original) The time duration indicating system of claim 1, wherein the volatile component is an insect repellant.

15. (Currently Amended) A method for indicating an end of life of a product, the method comprising:

providing a substrate having a volatile air treating component;

providing a solvent and a retarder;

mixing a volatile dye with the solvent and the retarder to form an intermediate solution;

and

coating the substrate with the intermediate solution containing the [[a]] volatile dye and the retarder thereby coloring the substrate, the volatile dye volatilizing over time resulting in a color change for the substrate and thereby indicating the end of the life of the product.

16. (Original) The method of claim 15, wherein the volatile dye is guaiazulene and the volatile component is an insecticide.

17. (Original) The method of claim 15, wherein the volatile dye is guaiazulene and the volatile component is transfluthrin.

18. (Canceled)

19. (Canceled)

20. (Currently Amended) The method of claim [[18]] 15, wherein the retarder is selected from the group consisting of hexadecane, tetradecene, transfluthrin, dodecene, N,N-diethyl-m-toluamide, vapothrin, ~~permethrin~~permethrin, prallethrin, tefluthrin, and esbiothrin.

21. (Currently Amended) ~~The method of claim 15, further comprising the steps of~~ A method for indicating an end of life of a product, the method comprising:

providing a substrate having a volatile air treating component;

providing a retarder[[, and]];

mixing [[the]] a volatile dye with the retarder[[,]]; and

~~wherein the coating step further comprises~~ coating the substrate with the volatile dye and the retarder thereby coloring the substrate, the volatile dye volatilizing over time resulting in a color change for the substrate and thereby indicating the end of the life of the product.

22. (Currently Amended) The method of claim ~~[[20]]~~21, wherein the retarder is selected from the group consisting of hexadecane, tetradecene, transfluthrin, dodecene, N,N-diethyl-m-toluamide, vapothrin, ~~permethrin~~permethrin, prallethrin, tefluthrin, and esbiothrin.

23. (Currently Amended) An insecticide product with an end of life color change indicator, comprising:

a substrate,

a volatile insecticide coated onto the substrate, the volatile insecticide selected from the group consisting of transfluthrin, vapothrin, permethrin, prallethrin, tefluthrin and esbiothrin, and guaiazulene coated onto the substrate,

wherein the color change indicator includes guaiazulene die coated onto the substrate.

24. (Original) The insecticide product of claim 23, further comprising a reference template disposed adjacent to the substrate and having a color substantially the same as the substrate coated with the guaiazulene dye and prior to volatilization of the guaiazulene dye.

25. (Original) The insecticide product of claim 23, further comprising a reference template disposed adjacent to the substrate and having a color substantially the same as the substrate after substantially all of the guaiazulene dye has been volatilized.

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35 USC §103(c) Statement of Common Ownership

Application No. 09/973,504, Munagavalasa et al. U.S. Publication No. 2003/0049410, and Munagavalasa U.S. Patent No. 6,534,079 were, at the time the invention of application No. 09/973,504 was made, all owned by S. C. Johnson & Son, Inc. of Racine, Wisconsin.